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**(54) METHOD AND DEVICE  
FOR CONTROL OF ROTOR**

(57) Abstract:

**PURPOSE:** To keep the fixed loop gain of a servo means by providing a means which delivers a signal of a prescribed frequency corresponding to a revolving speed of a rotor and a divider having its dividing ratio equal to the value equivalent to the square of the speed double as high as a reference speed and supplying the signals divided by the divider to a speed servo means.

**CONSTITUTION:** A magnetized plate 2 containing magnetic poles formed at the same angle intervals is attached to a capstan shaft 1. A magnetic sensor 3 is set close to the circumferential surface of the plate 2. The signals are supplied to a  $1/n$  dividing circuit 4 from the sensor 3 and at the same time the signal corresponding to the speed double as high as the revolving speed of a rotor is supplied to the divider 4 from a terminal 5. Then the dividing ratio of the circuit 4 is defined as  $n=1$  with a reference speed,  $n=4$  with a double

speed and  $n=16$  with a 4-fold speed respectively. Thus the angle space  $\theta$  between magnetic poles is changed apparently and then  $\theta=\theta_0$  is satisfied with the reference speed. Therefore  $\theta=4\theta_0$  and  $\theta=16\theta_0$  are satisfied apparently with the double speed and the 4-fold speed respectively. As a result, the space  $\theta$  is equal to the 4-fold and 16-fold values and therefore the transmission function is always constant regardless of the change of the angular velocity  $\omega$ .

$$\left. \frac{dT}{d\omega} \right|_{\omega=\omega_0} = - \frac{\theta}{\omega_0^2} \left| \right.$$

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